

Title **Sanhaço - Regulador 5v**

Size: **A4**

Number: **CB02**

Revision: **1.1**

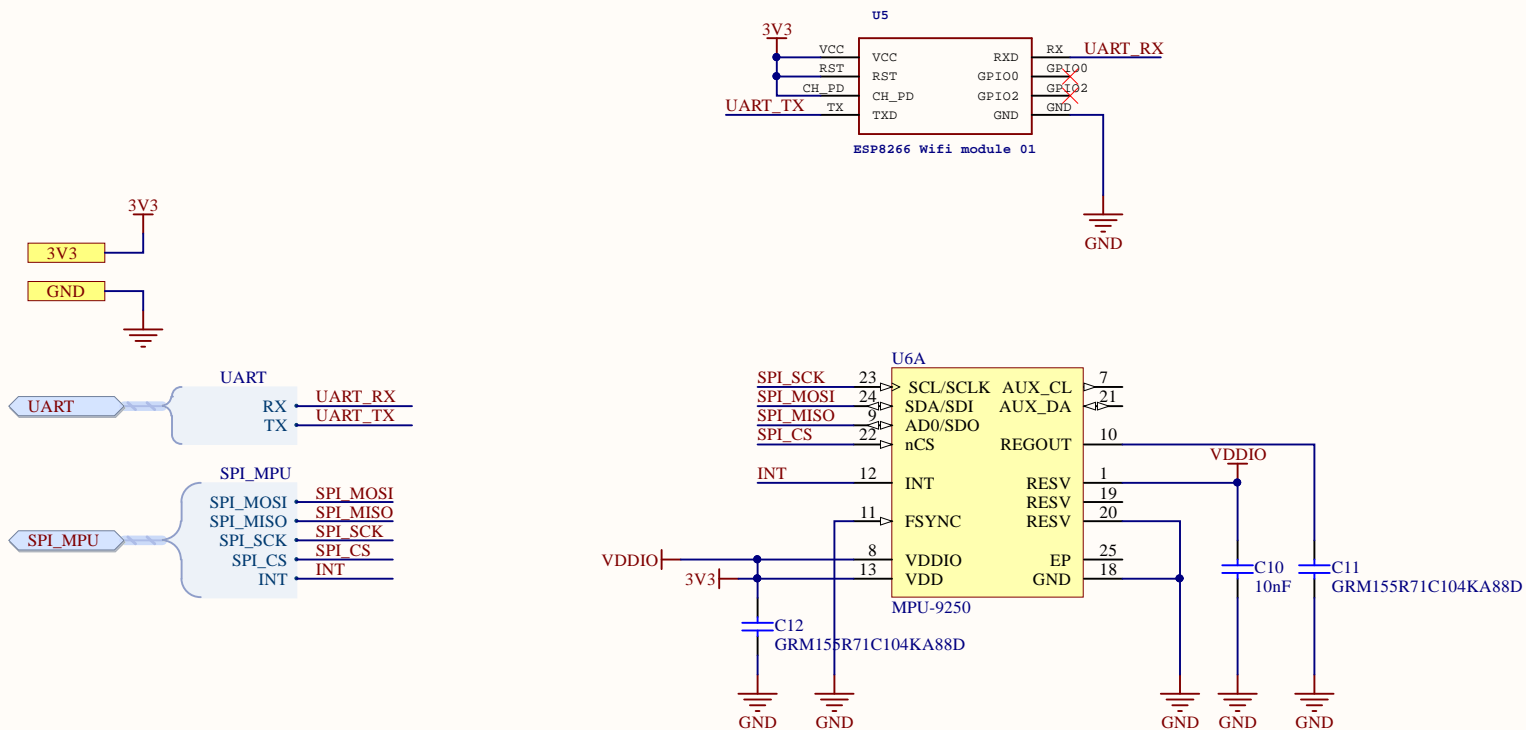
Date: **10/05/2019**

Time: **00:20:49**

Sheet **2** of **4**

File: **C:\Users\Erick\Desktop\sanhaco\Nova pasta\BattleBot-HardwareBoards-master\Carrier_Board\Cb_2019(ATUAL)\Regulador**





Title **Sanhaço - Periféricos**

Size: **A4**

Number: **CB04**

Revision: **1.1**

Date: **10/05/2019**

Time: **00:20:49**

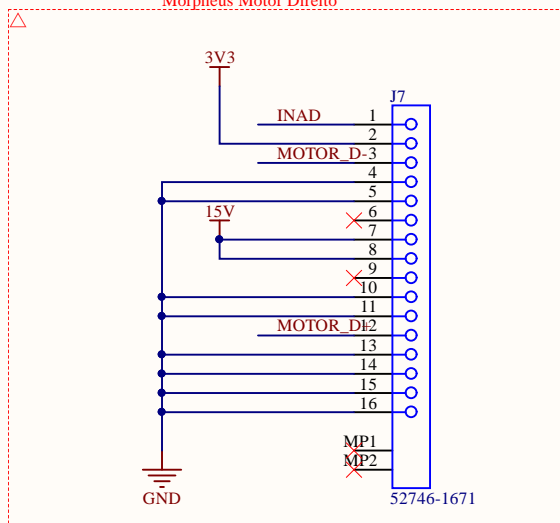
Sheet **4** of **4**

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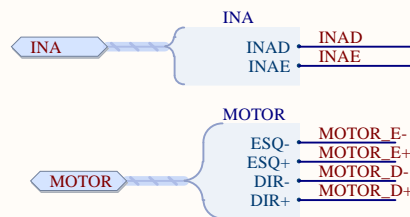
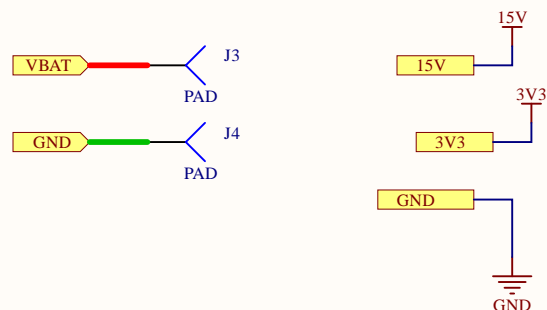
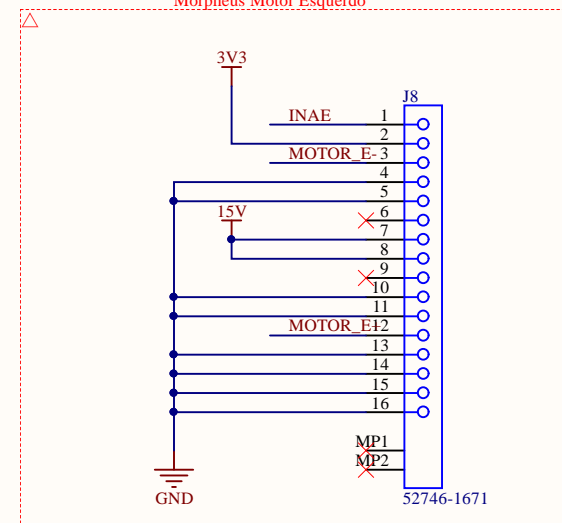



USAR FLAT CABLE DA FAMILIA MOLEX 150200 (TYPE A)

Morpheus Motor Direito



Morpheus Motor Esquerdo



Title <i>Sanhaço - Morpheus</i>			
Size: A4	Number: CB05	Revision: 1.1	
Date: 10/05/2019	Time: 00:20:49	Sheet 5 of 5	
File: C:\Users\Erick\Desktop\sanhaco\Nova pasta\BattleBot-HardwareBoards-master\Carrier_Board\Cb_2019(ATUAL)\Morpheus			

Line #	Name	Description	Designator	Quantity	Manufacturer 1	Manufacturer Part Number 1	Manufacturer Lifecycle 1	Supplier 1	Supplier Part Number 1	Supplier Unit Price 1	Supplier Subtotal 1
	08053C104K AT2A	CAP, Ceramic, 0.1 uF, +/- 10%, 25 V, -55 to 125 degC, 0805 (2012 Metric), RoHS, Tape and Reel	C1, C4, C6, C7, C9, C16, C17	7	Kyocera AVX	08053C104KAT2A	Volume Production	Mouser	581-08053C104K	0.17	1.19
	GRM188R61H105KAALD		C2, C3, C5, C8, C15, C18	6	Murata	GRM188R61H105KAALD	Volume Production	Arrow	GRM188R61H105KAALD	0.0333	133.2
	GRM155R71E103JA01J		C10	1	Murata	GRM155R71E103JA01J	Volume Production	Mouser	81-GRM155R71E103JA1J	0.1	0.1
	GRM155R71C104KA88D	Chip Capacitor, 0.1 uF, +/- 10%, 16 V, -55 to 125 degC, 0402 (1005 Metric), RoHS, Tape and Reel	C11, C12	2	Murata	GRM155-R7-1C-104K-A88-D	Volume Production	Mouser	81-GRM155R71C104KA88	0.11	0.22
	C1608XSR1V335K080AC	Capacitor 3.3uF	C13	1	TDK	C1608XSR1V335K080AC	Volume Production	Digi-Key	445-14167-1-ND	0.45	0.45
	UUD1A221MCL1G5	Aluminum Electrolytic Capacitor, UD Series, Low Impedance, 220 uF, 10 V, +/- 20%, -55 to 105 degC, Chip Type, (6.3 x 7.7 mm D x L, Pb-Free, Reel	C14	1	Nichicon	UUD1A221MCL1G5	Volume Production	Mouser	647-UUD1A221MCL	0.43	0.43
	CBAT54C	Diode Schottky 30V 200mA 3-Pin SOT-23 1/R	D1	1	Central Semiconductor	CBAT54CTR	Volume Production	Mouser	610-CBAT54CTR	0.43	0.43
	TLMB1100-GS08	Blue LED, 10 mA, 3.9 V, -40 to 100 degC, 2-Pin SMD (0603), RoHS, Tape and Reel	DS1	1	Vishay	TLMB1100-GS08	Volume Production	Mouser	78-TLMB1100	1.3	1.3
	TLMS1100-GS08	LED, RED, 2.1 V, -40 to 100 degC, 2-Pin SMD (0603), RoHS, Tape and Reel	DS2	1	Vishay	TLMS1100-GS08	Volume Production	Mouser	782-TLMS1100	0.4	0.4
	TLMY1100-GS08	Yellow LED, 20 mA, 2.1 V, -40 to 100 degC, 2-Pin SMD (0603), RoHS, Tape and Reel	DS3	1	Vishay Semiconductors	TLMY1100-GS08	Volume Production	Mouser	78-TLMY1100	0.4	0.4
	53398-0771	7 way SMT straight header Molex PICOBLADE Series, Series Number 53398, 1.25mm Pitch 7 Way 1 Row Straight PCB Header, Solder Termination, 1A	ENCODER, ESC, Termistores	3							
	PAD	Socket	J1, J2, J3, J4	4							
	52746-1671	0.5 mm Pitch Easy-On(TM) Type FPC Connector, 2.0 mm Mated Height, Right Angle, ZIF, SMT, Bottom Contact, 16 Circuits, -20 to 85 degC, ELV and RoHS Compliant, Tape and Reel	J5, J6, J7, J8	4	Molex	52746-1671	Volume Production	Newark	56R1785	0.747	2.99
	SRR1260-101M	FIXED IND 100UH 1.7A 180 MOHM	L1	1	Bourns	SRR1260-101M	Volume Production	Mouser	652-SRR1260-101M	0.97	0.97
	VBAT55 Jumper 0402(1005)	Header, 2-Pin Jumper 0402 (1005 Metric)	P1	1	SparkFun	PRT-10474	Unknown	Mouser	474-PRT-10474	1.5	1.5
	1K 5% 0805(2012)	1K 0.125W 5% (0805 (2012 Metric) SMD	R1, R2, R3, R4	4	Vishay	CRCW0402000020E0D	Volume Production	Mouser	71-CRCW0402-0-E3	0.017	0.17
	270R 5% 0402(1005)	270R 0.063W 5% 0402 (1005 Metric) SMD	R5	1	Yageo	RC0805JR-071KL	Volume Production	Mouser	603-RC0805JR-071KL	0.11	0.11
	220R 5% 0201(0603)	220R 0.05W 5% (0201 (0603 Metric) SMD	R6	1	Yageo	AC0402JR-07220RL	Manual Solution	Mouser	603-AC0402JR-07220RL	0.1	0.1
	10K 1% 0402(1005)	10K 0.063W 1% 0402 (1005 Metric) SMD	R7	1	Yageo	AF0603JR-07220RL	Manual Solution	Mouser	603-AF0603JR-07220RL	0.12	0.12
	56K 1% 0402(1005)	56K 0.063W 1% 0402 (1005 Metric) SMD	R8, R9, R10, R16, R17, R18, R19, R20	8	Vishay	CRCW040210K0FKEDC	Manual Solution	Mouser	71-CRCW040210K0FKEDC	0.051	0.51
	LD1117533C TR	56K 0.063W 1% 0402 (1005 Metric) SMD	R11, R12, R13, R14, R15	5	Bourns	CR0402-FX-5602GLF	Volume Production	Mouser	652-CR0402FX-5602GLF	0.022	0.22
	AS7815ADTR-G1	Integrated Circuit	U1	1	STMicroelectronics	LD1117533CTR	Manual Solution	Mouser	511-LD1117533C	0.4	0.4
	Blue Pill	Integrated Circuit	U2	1	Diodes	AS7815ADTR-G1	Not Recommended for New Design	Mouser	621-AS7815ADTR-G1	0.43	0.43
	SN74LS151DR	8-Line To 1-Line Data Selectors/Multiplexers, D0016A, LARGE T&R	U3	1							
	ESP8266 Wifi module 01	ESP-01	U4	1	Texas Instruments	SN74LS151DR	Volume Production	Mouser	595-SN74LS151DR	0.93	0.93
	MPU-9250	9-axis MotionTracking device, 2.4 to 3.6 V, -40 to 85 degC, 24-Pin QFN, RoHS, Tape and Reel	U5	1							
	LM2596SX-5.0	SMPSLE SWITCHER® Power Converter 150 KHz 3A Step-Down Voltage Regulator, 5-pin TO-263	U6	1	TDK InvenSense	MPU-9250	Volume Production	Mouser	410-MPU-9250	7.78	7.78
	AS7805ADTR-G1	Integrated Circuit	U7	1	TI National Semiconductor	LM2596SX-5.0	Obsolete				
		Integrated Circuit	U8	1	Diodes	AS7805ADTR-G1	Manual Solution	Mouser	621-AS7805ADTR-G1	0.41	0.41